

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph on page 6, line 8, as follows:

An interior of the separation chamber 51 does not include a separation pipe used in a conventional centrifugal compressor. Thus, the interior of the separation chamber is a hollow space, and only introduced refrigerant gas (partly mixed with lubricating oil contained in the compressor) is present. Further, the interior of separation chamber is free from bumps and dents which may disturb revolution of refrigerant gas introduced into separation chamber 51. Feed hole 53 is disposed eccentrically from a central axis of circular columnar space 49 of separation chamber 51. The refrigerant gas introduced into separation chamber 51 is guided in a tangential direction of circular columnar space 49. That is, the refrigerant gas flows into separation chamber 51 along an inner circumference of circular columnar space 49 so as to revolve in a direction of revolution. Therefore, the refrigerant gas introduced into separation chamber 51 revolves in a peripheral direction in separation chamber 51. By a centrifugal force of revolution, lubricating oil of heavier specific gravity contacts with an inner wall of separation chamber, and is separated from the refrigerant gas.

Please amend the paragraph on page 7, line 3, as follows:

In this structure, fluid introduced into separation chamber 51 through communication passage 57 is guided in the tangential direction of circular columnar space 49. That is, the fluid flows into separation chamber 51 along the inner circumference of circular columnar space 49. The communication passage 57 opens in the tangential direction of the circular columnar space 49, or interior space, so that any fluid flowing into the interior space via the communication passage 57 from the upper part of the oil-storage chamber is aligned with the direction of revolution at a point of introduction into the interior space. That is, the feed hole 53 and the communication passage 57 introduce fluid into the interior space in the same circumferential direction. As a result, the fluid flowing into separation chamber 51 from oil-storage chamber 52 through communication passage 57 smoothly converges on revolution of refrigerant gas in separation chamber 51. That is, disturbance of revolution of refrigerant gas can be suppressed. If

the lubricating oil in oil-storage chamber 52 reaches up to communication passage 57 due to some cause, the lubricating oil is guided into separation chamber 51 by way of communication passage 57. Since a flowing direction of lubricating oil into separation chamber 51 is a direction to converge on a revolving flow in separation chamber 51 as mentioned above, revolution of refrigerant gas in separation chamber 51 is not disturbed.